



CSMS0612D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

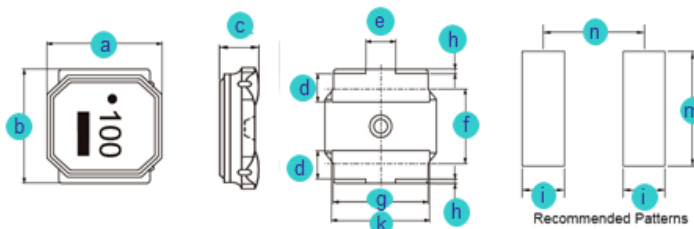
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance @100KHz (μH)	Inductance Tolerance	DCR ±20%(Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0612D-2R5N	2R5	2.5	± 30%	0.090	2100	1800	45
CSMS0612D-3R3N	3R3	3.3	± 30%	0.105	1800	1700	42
CSMS0612D-4R7M	4R7	4.7	± 20%	0.125	1600	1550	36
CSMS0612D-5R3M	5R3	5.3	± 20%	0.125	1500	1550	34
CSMS0612D-6R8M	6R8	6.8	± 20%	0.165	1300	1350	30
CSMS0612D-100M	100	10	± 20%	0.200	1000	1200	22
CSMS0612D-150M	150	15	± 20%	0.295	800	800	18
CSMS0612D-220M	220	22	± 20%	0.465	760	650	12
CSMS0612D-330M	330	33	± 20%	0.580	590	550	8
CSMS0612D-470M	470	47	± 20%	0.965	520	460	6
CSMS0612D-680M	680	68	± 20%	1.160	440	410	3
CSMS0612D-101M	101	100	± 20%	1.670	350	320	1

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k	m	n
CSMS0612D	6.0 (0.236)	6.0 (0.236)	1.2 (0.047)	1.35 (0.053)	2.3 (0.091)	4.0 (0.157)	4.8 (0.189)	0.3 (0.012)	1.6 (0.063)	5.2 (0.205)	5.7 (0.224)	4.7 (0.185)
Tol.	±0.2 (0.008)	±0.2 (0.008)	Max.	±0.2 (0.008)	Typ.	±0.2 (0.008)	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

- CSMS0612D-xxx_, "CSMS0612D" = P/N, "xxx" = Inductance, "_" = Tolerance.
- Tolerance "_": M: ± 20%, N: ± 30%
- Magnetically shielded
- High saturation current
- Storage temperature: -40°C to +85°C.
- Operating temperature range: -25°C to +125°C (Including self-heating).
- Inductance measured using the HP4285A and Chroma1320 & 3302.
- DCR measured using Chroma 16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1: The value of current causes a 30% Inductance reduction from initial value. (at : 20 °C ambient)
- Temperature rise current Idc2: The value of current causes a 40°C temperature rise. (at : 20 °C ambient)
- Rated Current: Either Idc1 or Idc2 whichever is smaller.
- MSL: Level 1.
- Inductance and Current range: From 2.5 μH (1800mA) to 100.0 μH (320mA).

D. Applications:

- Game Consoles
- Set Top Boxes
- Cables Modems
- Computers
- Mobile Communication Devices (Cell Phones, Radios, etc.)
- PDA, LCD, DVD, BRP, HD.

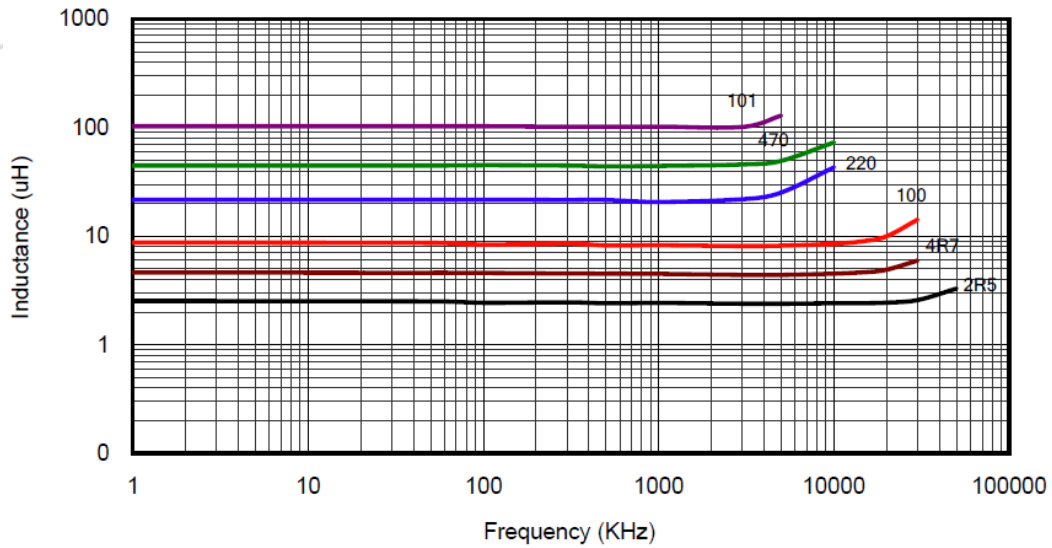


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

